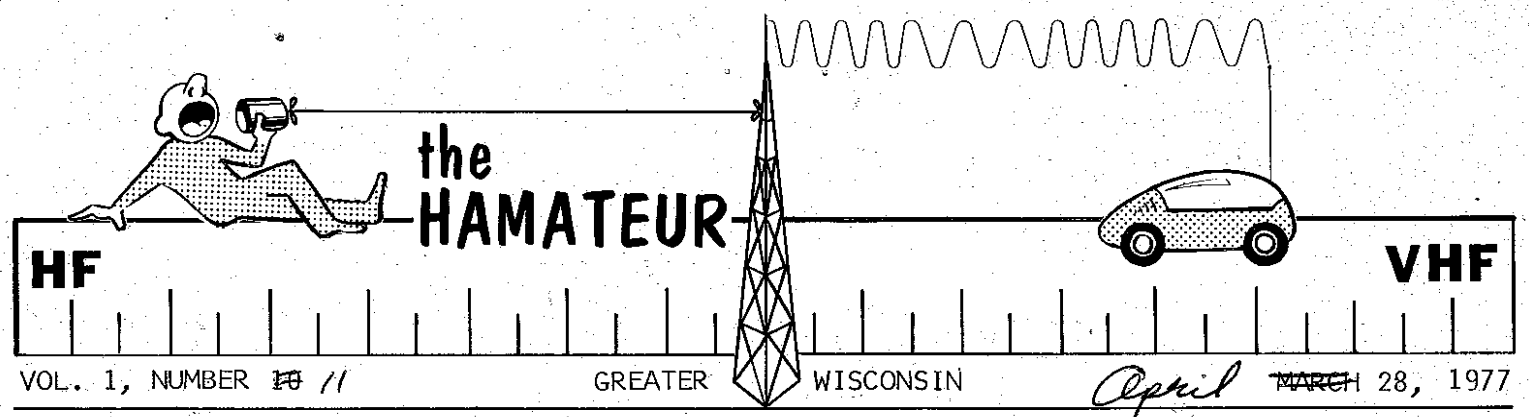


VOL. 1, NUMBER ~~10~~ 11 GREATER WISCONSIN April ~~MARCH~~ 28, 1977

the HAMATEUR

This newsletter is published monthly for the amateurs represented by the Radio Clubs listed. Reproduction, with credit given, is granted for anything appearing within the HAMATEUR. Deadline date for the month is the 5th. Publication date is the 28th.

Editor:	WA9JMO.....Larry McCalvy.....	7453 W. Thurston Cir...Milw., Wis. 53218	464-7449
Want Ads:	W9AMM.....Don Habeck.....	5973 Sugarbush La.....Greendale, Wis. 53129	
Biography:	WB9UES.....Pete Schreiber.....	23613 - 60th St.....Salem, Wis. 53168	
Technical:	WA9VNJ.....Steve Reyer.....	Dept. of Electrical Engineering, UWM, Milw., Wis. 53201	
Circulation:	WB9TPD.....Lee Benson.....	2014 S. 102nd St. Apt. 107C, West Allis, Wis. 53227	327-3837

Reporters:

25/85....	WB9EFP...Bill Newman.....	447-1954	6 MIC....	WA9UXL...Art Acheson.....	645-6122
07/67....	WB9VKC...Dow Jones.....	354-4963	MRAC.....	W9MDG....Al Belanger.....	461-8272
31/91....	WA9RWO...Larry Kaja.....	547-1911	Ozaukee..	WA9BMA...Ed Bach.....	284-2664/Metro 242-3420
93/33....	WB9BSO...Bruce Herrick....	964-6536	Racine...	W9HI.....Stu Stewart.....	539-2680
QCWA.....	W9VQD....Travis Baird.....	352-9642	22/82....	WA9JMA...Larry O'Hara....	Whitewater

WA9 Just Mouthing Off

Joining our family with this issue are the 75 members of the South Eastern Wisconsin FM Amateur Repeater Society (22/82). I hope you will enjoy reading the HAMATEUR as well as we enjoy putting it together. The reporter for the group is Larry O'Hara, WA9JMA, in Whitewater.

From time to time I receive suggestions concerning changes in the HAMATEUR. Most are viable, needing only implementation on our part. All are greatly appreciated. Your comments and critiques, pro or con, indicate a growing interest and concern in our newsletter. Keep up the good work.

There presently is equipment available from Clegg at a 20% discount on a bulk order. I talked to a manufacturer's representative at Clegg last week. He said the equipment need not be of the same type—that is, one could order something in the 220 Mhz line and/or a two meter unit for example. If you're interested, contact me or your club reporter and we can work out the details. I'm sure if Clegg is willing to do business like this, many of the other manufacturers could be approached with a similar deal. This would eliminate the middle man and allow us a noticeable savings.

In the event you do not receive a future issue of the HAMATEUR within a ten day period following publication—the 28th, and you are paid up on your club dues, contact our circulation department: Lee Benson, WB9TPD.

73's Larry McCalvy, WA9JMO

CLUB News

31·91 MILWAUKEE REPEATER CLUB, INC. 31·91

REPEATER CLUB MEETING The spring meeting of the Milwaukee Repeater Club will be held Thursday, May 5, at 7:30 P.M. at Nino's on Port Washington Road.

MAINTENANCE REPORT The final tube of our Gonset amplifier was replaced in March. The 4X150A had a cathode-grid short. This is the only tube in the system. Generally tube life is 8 months. Our system has been averaging 10.7 hours "key down" per day. That amounts to 3 3/4 minutes of air time for each member. When 25/85 was off the air, WR9ABM averaged 14 hours per day of air time.

MEMBERSHIP Present membership is 170. New members can join by paying dues at the rate of $1 per month for the remainder of 1977. Thus, those joining in May will pay $8. Dues should be sent to the Milwaukee Repeater Club, Inc., P.O. Box 2123, Milwaukee, WI 53201.

OPERATING ON WR9ABM Common sense plays an important part in making our repeater operate smoothly. Long rag chews should be avoided since other users would like to start their own QSO without getting involved in the present one. Give the repeater a 20 minute break for every 20 minutes you talk. Of course, rush hour QSOs should not exceed 10 minutes in length.

NEW CLUB REPORTER (S) After many years of helping MRC as President, Vice-President, Secretary, System Technician and Club Reporter, I feel it is time somebody else pitched in to help the Club and its members. For this reason, this is the last column I am doing as Club Reporter. Larry, WA9RWO, President, is looking for a successor, and I hope you will contribute when he asks for your help. 73's Al, WA9RYO

MEETING: Tuesday, May 3, 1977, 7:30 P.M. at the Red Cross Building, 26th and Wisconsin Ave.

EMERGENCY PATCH SYSTEM TO SHERIFF'S DEPT.: Enclosed you will find a booklet describing the operating procedures and proper use of our new Emergency Patch System which provides direct communications from mobiles to the Milwaukee County Sheriff Dept. The telephone line installation and monthly rental costs to our repeater site is being paid for by the Milwaukee County Sheriff's Dept. The electronics at the repeater site is provided by the Milwaukee County ARES, and was designed, constructed and installed by WA9POV with the assistance of W9ATK and WB9VKC.

This service is available to ALL operators (whether ARES members or not), without any cost or registration required of any operator using this system. The system will be operational 24 hours per day.

ALL STATIONS MUST UNDERSTAND THE FOLLOWING BEFORE OPERATING THE SYSTEM:

(1) Any misuse, malicious interference, or false reports made on law enforcement communications systems, is a Federal offense, and the Sheriff's Department will immediately turn any violations over to the F.B.I. for prosecution to the fullest extent of the law. THERE WILL BE NO EXCEPTIONS!

(2) If you have doubts about how or what to report, ask for assistance from a repeater Control Operator or an Assistant EC on frequency before accessing the patch.

(3) If you do not have touch tone capability and wish to report an emergency, ask any station on frequency with touch tone capability to access the system for you. When your traffic to the Sheriff's Dept. is completed, the assisting station will dump the system for you.

(4) The system has been designed so that ONLY the 3 digit emergency patch to the Sheriff's Dept. is possible. No other telephone call can be made.

(5) Testing and adjusting of your equipment can be made ONLY when a repeater Control Operator is on frequency and has disabled the system from ringing at the Sheriff's Dept. UNDER NO CIRCUMSTANCES SHOULD A CALL BE MADE TO THE SHERIFF'S DEPARTMENT FOR TESTING PURPOSES.

PERIODS FOR TESTING: After each Monday night ARES net, or any evening after 8 PM, providing a repeater Control Operator is available to assist you. Keep all tests as short as possible.

RE: APRIL 2 TORNADO EMERGENCY

I have been asked by Al Jagler, Meterologist in Charge, of the National Weather Service Milwaukee office; Michael S. Wolke, Sheriff of Milwaukee County; Tim Riordan, Director of Milwaukee County Emergency Government; and Dan Gracz, Coordinator of the City of Milwaukee Emergency Government to pass along their gratitude for the "excellent and professional service" provided by all the hams during the tornado on April 2. You have proven to all that we can provide a valuable and dependable communications service in times of emergencies.

The considerable time and effort we all spent in preparedness planning and testing over the last years has paid off dramatically, and I wish to personally commend all of you for your participation and your professionalism.

Bob, WB9NNJ

R. Mc. C. RACINE MEGACYCLE CLUB R. Mc. C.

MEETING: Monday, May 9, 1977, 7:00 P.M. at the American Red Cross Building, Taylor Ave., Racine

At the March meeting, WA9TBR reported that $87.41 was added to our club funds from the auction held last February. Up coming at our May get-together will be a report from our field day committee. If you have any ideas on field day, please pass it along to anyone on the committee: W9KZZ, WB9VNT, W9SZL, W9LXY, W9HAG or W9HI. Let's turn out and again make W9UDU number one. A letter from Clegg on 220 Mhz rigs was read by WA9HOH. They are selling them for $132.00 in quantities of eight. Let's not lose 220 Mhz, so buy two rigs and keep our frequencies. Thanks goes to WB9NNJ, Bob Fairman, for the nice talk on ARES, Red Cross and .07/.67 in Milwaukee.

Our members attending the Kenosha breakfast meeting the first Sunday of the month were requested to let W9CSQ know how many will be attending each month. Speaking of food, I'm writing this news from the Amana Colonies in Iowa. Anyone passing by on I-80 should stop in one of the many fine restaurants. Everything is homemade and served family style.

K9RRS is sporting a new GL-1000 Honda; W9SSR has a new five element Wilson mono-bander, not on the air yet, but DX will suffer soon. W9ZNB now has a big signal on two meters with a new beam antenna. (Do you think he bought a new antenna instead of a wedding ring?) 73's Stu, W9HI .... ..

Q.C.W.A. Q.C.W.A.

WISCONSIN CHAPTER QUARTER CENTURY WIRELESS ASSOCIATION

MEETING: June 4, 1977, Saturday, 11:00 A.M. at Smith Bros. Fish Shanty, Port Washington. The Wisconsin Chapter of QCWA welcomes John Koehler, W9DGB, 1646 E. Newton Ave., Milwaukee, Wis. 53211, to our group. Please add his name to your recently produced roster. Several corrections are needed: W9EJD change to Box 97; W9FJE change zip code to 53228; W9FMI change to Box 148; change W9GG to K9GG; W9SNK change N530 to N53. Hope to see all of you at our spring meeting. 73's Travis, W9VQD

93·33 SOUTH EASTERN WISCONSIN AMATEUR RADIO SOCIETY 93·33

MEETING: Wednesday, June 1, 1977, at 7:30 P.M. at the Waukesha City Hall, Waukesha. After a short business meeting, the S.E.W.A.R.S. Spring Auction was held during the April 6 meeting. Auctioneers Lee, WB9TPD, and Norm, WB9PCQ, reported that a box of unidentified (and some unidentifiable) goodies brought far more spirited bidding, as well as more cash, than familiar items.
Waukesha County ARES members were organizing the new communications center at Waukesha City Hall Emergency Government center when the first reports of the April 2 tornado filtered in. Links were established between Waukesha County Sheriff and the Weather Bureau via 93-33 and 07-67. Thanks to all who helped.
The new repeater is installed and working very well. It is all solid state and uses a Motorola Motrac D Receiver and Motran Exciter. The final is a Gonset commercial, using a single 4X150. The Duplexer is a TX-RX systems, and the antenna is a motorole TDD-6073-5.25db. Thanks to K9WQG, WB9HCO and others who helped.
73's Bruce, WB9BSO

M·R·A·C MILWAUKEE RADIO AMATEURS' CLUB M·R·A·C

The next meeting of the Milwaukee Radio Amateurs' Club will be Thursday, May 26, 1977, 7:30 P.M. at the Wauwatosa Savings & Loan Building, 7500 W. State Street. (Use State Street entrance)
This meeting date will feature the election of officers for the coming season from a list of candidates furnished by the Nominating Committee. This list can be supplemented with nominations from the floor, but be sure the candidate has consented.
This meeting will also feature an Auction of amateur radio and related equipment by our "professional" auctioneer, W9VQD. No charges are made for this service. One of two procedures can be followed to assure value received: a minimum bid placed on your item, or bid yourself until the minimum value is reached.
Final meeting of the current club season will be June 23, 1977, and features the installation of the new officers and directors.
News of the code/theory class next month. C U There. 73's Al, W9MDG

25·85 25·85

MILWAUKEE COUNTY REPEATER SOCIETY INC.

NEXT MEETING MAY 16, 1977 Our next monthly meeting will be held at Nino's Steak Round-Up located at 3400 S. 108th St. (Hwy 100). All are invited to attend. The meeting on Tuesday will start at 8:00 P.M. SHARP.
FIRST "FISH-FEST" PLANNED A fish-fest is being planned for July 16, 1977, on Lake Michigan. A joint effort between the 25-85 and 31-91 clubs, it will feature two different activities. Leading off the event will be a fishing charter from 7:00 A.M. until 12:00 noon. The fishing charter activity will cost $25.00 per person. Continuing from noon until ??? a FREE fish-boil will be held. All amateur operators and their guests are invited to attend. For more info, contact Jim Wierzba WB9OJE at 282-4497.
EQUIPMENT UP-DATE The repeater we are now using consists of all new solid state logic designed and built by Brian, K9AQF. The autopatch is also brand new and is located entirely at the transmitter site. The receiver is a Motorola Motran unit with the best sensitivity we've had in a long time. The present transmitter is a Motorola tube-type unit with an output of about 45 watts into the duplexer. A new high-powered Motrac transmitter is being readied for installation as the final step in our modernization.
WHAT'S THE BUZZ? Have you noticed that weird buzzing noise heard only on the 25-85 repeater? This question has been asked so many times, we decided to attempt to clear the air. The tone that you are hearing on the repeater output is a PL or "private line" tone. It is designed for receivers with tone coded squelch. A receiver so equipped will respond only to signals with the correct frequency tone superimposed on the modulation. The present tone being sent is 1B or 107.2 Hz. It will soon be changed to 3A (127.3 Hz) in order to conform to the standard coding scheme for the Milwaukee area as suggested by the W.A.R. The input to the repeater will of course require no tone at any time. The main reason for using this system is for the benefit of stations who want to monitor our system without having to listen to repeaters on the same channel in adjacent areas.
WHAT? YOU HAVEN'T PAID YOUR DUES YET! With all that great equipment listed above you haven't paid your dues yet? How can you afford not to join! Remember, it was due Feb. 1. Please remit your check to the club secretary at the following address: Tamar Hernik, P.O. Box 18443, Milwaukee, WI 53218.
DE Tom, WB9CSK, and Bill, WB9EFP

SIX METER INTEREST CLUB

6·MIC

MEETING DATE Monday, May 23, 1977. QTH of Sheldon, WB9SJQ, 1849 Church Street, Wauwatosa. TIME 7:30 P.M.
The March meeting of 6 Mic was held at the QTH of WB9SJQ. Many topics were covered during the meeting. Among the highlights were the nomination of officers for the next year, net operations, Field Day, and ways to increase activities on Six Meters.
Nominations were made as follows: Sheldon, WB9SJQ, for Club President; Marsh, WB9FZU, for Vice-President; Art, WA9UXL, for Activities Chairman; Jim, WB9RSK, was renominated as Secretary-Treasurer. Nominations are to remain open until the April meeting.
On May 1, 1977, Jim, WB9RSK, will be taking over as NCS for WB9WWP on the AM Net. Being Net Control Station can be very discouraging, so let's show our support by checking in as often as is possible. Thanks.
The members present discussed the possibility of 6 Mic participating in Field Day activities. Nothing was decided and the idea was referred to the Activities Chairman. Possible ideas to increase activity on 6 meters were discussed. One wild idea thought up was to look into the feasibility of setting up an AM Repeater on Six Meters. Yes, Ma, the man said AM! WB9SJQ and WA9UXL were appointed as a committee to see if the idea was at all practical. They both ask that anyone who has comments, pro or con, please get in touch with them.
Marsh, WB9FZU, will be setting up a second Six Meter station in Merrill, Wis., using the call WD9BIW. Looks like his will be one of the last secondary calls issued! His station will consist of an ICOM IC502 and a 3 element beam. Look for him.
TRAFFIC HANDLED Sheldon, WB9SJQ, working with WB9RJQ in Chicago, relayed one informational message to Alaska via 6 and 20 Meters, concerning conditions in Brookfield after our big wind on Saturday, April 2.
DUES NOTICE FROM WB9RSK Club members are reminded that dues were due April 1, 1977. The club treasury needs the funds to continue operations. Club members who do not renew their memberships will no longer receive copies of the Hamateur.
That's all for this issue. See you next month. Better yet, join me on 6 Meters some evening. The rig is usually warmed up and sitting on 50.310 Mhz. Give me a call. 73's Art, WA9UXL

SOUTH EASTERN WISCONSIN FM AMATEUR REPEATER SOCIETY

22·82

MEETING: Thursday May 26, 1977, 7:30 P.M. at the WTMJ-TV Studios, 720 E. Capitol Drive
Our repeater has been in operation since 1963, making it the oldest repeater continuously operating system in Wisconsin. Originally it was a combined base station/repeater for Carl, W9ROM, when he was on duty at FM Radio station WHAD. Frequency was 146.34 in, 146.94 out.
Increased 2 meter FM activity forced a change to 146.34/146.04/146.82. Today it is an open repeater with two input frequencies, 146.04/146.22.
The transmitter is a Motorola Motran Exciter and a Motorola Amplifier using P-P 4CX250B. The receivers are Motorola Sensicon A, one each for 146.04 and 146.22 Mhz...a Motorola TA141 for 450 Mhz control, and Motorola TA141 (2) for pickup of remote receiver sites.
The antennas are a receive 4 bay Hy Gain J Pole 150' tower level. The transmit is a Phelps-Dodge 20' fiberglass 280' tower level. The control and link is a Multi Element Yagi one per channel.
The Autopatch is a touchtone decoder with selectable input code of 1 to 4 digits, San.Bar touchtone to pulse converter with 15 digit memory, and 20 DB compression of telephone audio for level equalization.
The location of this repeater is on Lapham Peak (ground elevation of 1240' MSL) allows excellent coverage of Milwaukee, Waukesha, Washington, Jefferson, Walworth, Dodge and Ozaukee counties. In addition, the eastern parts of Dane and Rock counties, and western Racine and Kenosha counties are well covered. Re-establishment of a remote receiver site to the south of Milwaukee will extend two-way coverage into northern Illinois.
For reference, the repeater is located 25 miles west of Milwaukee and two miles south of I-94 at Highway CC (Delafield) exit. All equipment is located in the club's own concrete block building on the grounds of the state radio network station WHAD.
The meetings are held every 4th Thursday, 7:30 P.M. at WTMJ-TV station on E. Capitol Drive.
73's Larry, WA9JMA

JUST LISTENING

Favorite words on the freeways and byways as heard on the 2 Meter repeaters, especially during bad weather and poor driving conditions:

"Boy that idiot just don't know what he is doing!"
"He better learn how to drive!"
"He should stay off the Freeway!"
"If he can't drive it he should park it!"
"Some people will never learn how to drive!"
"That dope don't know which way is up!"

But don't forget, the opinion you have of the other driver may be the same opinion he has of you. So you better have your brain in gear before you put your mouth in motion! It sure is wonderful that we are blessed with so many perfect drivers within our 2 meter repeater systems.
The answer is, be patient with the other driver and just roll with the punches.
73's Edward W. Diedrich, W9EWW, Beer Bottle Hill

May Meeting: Wednesday, May 11, 1977, at Cedarburg CD Center, 7:30 PM. The program will feature Dick Oberholtzer on Police Radar. Field Day arrangements will be an important part of the meeting. The program at the April meeting on Police Dispatching was tied into the realities of emergency communications in Ozaukee County. Through the efforts of some of the members, a central county communications center is very close to reality. Organizational plans are well along, but not yet fixed. A two meter fox hunt is in the works for May. A set of rules is being developed as well as other details.

LATE NEWS FROM OZAUKEE

Disturbed about the high price of booze? Tune 146.55 simplex. The "Little Old Winemaker's Net" has been in constant evening session for several weeks. An evening of reading the mail is apt to produce an alcoholic stupor. If you are not interested in the numerous formulae exchanged over the air, you should be able to pick the QTH that has the best stuff in the barrels, and time your visit to match the perfection of the vintage.....!!GIANT FLASH!! Wes W9FY reports that Mel W9FZS's fantastic luck has at last run out. After years of operating habits with which we are only too familiar, Mel now has been issued a new call, W9FZ. The FCC finally got his S.....When Vern W9RYA heard that Ron W2HCB/9 was back in the area, he dusted of his psychiatrist's couch and started to brush up on the art of Freudian psychoanalysis. Vern is ready when you are Ron.....Terry WA9AWO went 10-8 in a Fox Hunt run by the Lake Breeze CB Club on Sunday, April 17th. The false nose and beard he wore did not throw the local spies off even a little bit. He lost. 10-4 Good Buddy!

73 Ed WA9BMA

MILWAUKEE'S FIRST TWO-METER AUTOPATCH ONLY REPEATER

E. GRUEL, WB9OJD, CHAIRMAN, MILWAUKEE AUTOPATCH REPEATER ASSOCIATION

Milwaukee's first exclusive autopatch only repeater was officially dedicated "on-the-air" as of March 11, 1977. We were a little bit later than we anticipated, but the machine is working. Several "bugs", as with all machines, are being worked out, and we ask our users' patience.

The 147.60 input/147.00 output machine is on Milwaukee's south side, with the transmitter located about 46th and Layton Ave. on a 60' tower, and the receiver located about 20th and Morgan Ave. on top of a tower about 110' from ground level. Preliminary tests show excellent Milwaukee area coverage.

Although all equipment is privately owned by Jim, WB9TCX, all hams are invited to use the machine. Milwaukee Autopatch Repeater Association (M.A.R.A.) is a loose-knit organization of interested hams who support the ideals of a free autopatch repeater as originally advanced by Jim. We have no club rules, dues or regular meetings. We do have periodic technical gatherings as necessary, however.

I am sure many will ask, "why no dues?" "How does it support itself?" Simple. We believe in some basic principles. First, amateur radio is basically an experimental mode for the betterment of the individual operator and the welfare of the community. Second, we believe that "free access autopatch" is in the "spirit of amateur radio" as a non-profit venture. In this way, any ham, even out-of-towners, can use an autopatch without hassles. What better way to promote fraternal goodwill? Finally, M.A.R.A. does accept donations to keep the machine on the air. We are grateful for <u>any</u> <u>assistance</u> extended, and as long as enough hams support it, we'll keep it on the air.

Using the machine is simple:

(1) Push the tone (Ø) on your pad.
(2) Repeater dial tone will be heard on-the-air.
(3) Use your call letters and announce that you are going "autopatch". (Note: you cannot hear any repeater receiver squelch tail until the dial tone is accessed.)
(4) Enter your seven digit local number to the Greater Milwaukee calling area. No long distance calls will be permitted, and control operators will be enforcing this.
(5) Attempt to keep your conversation under five (5) minutes...other users may be waiting. We feel strongly that this should be adequate in 99% of the calls made.
(6) When your call is completed, push the tone (*) to drop the line. The repeater will shut off the phone and go off the air. Note: failure to access input in one (1) minute will result in loss of repeater also.

NATIONAL AMATEUR INTEREST

From recent HR Reports the following of general interest was taken:

NO NEW AMATEUR SECONDARY STATION LICENSES are being issued effective immediately, and the FCC is proposing abolition of all except individual primary station licenses. A formal proposal to permanently eliminate all forms of secondary station licenses--club, RACES, special-event and the like--was also approved by the commissioners Thursday, March 3, 1977, and will be released shortly....that is, all preferential calls, except non-specific 1X2 Extra's calls, will be dropped.

Five thousand four hundred and ninety-nine novice exams were mailed out in January, generally within a week after receipt of the request. Requests for multiple novice exams must be accompanied by the exact number of those taking the exam and the date it is to be given.

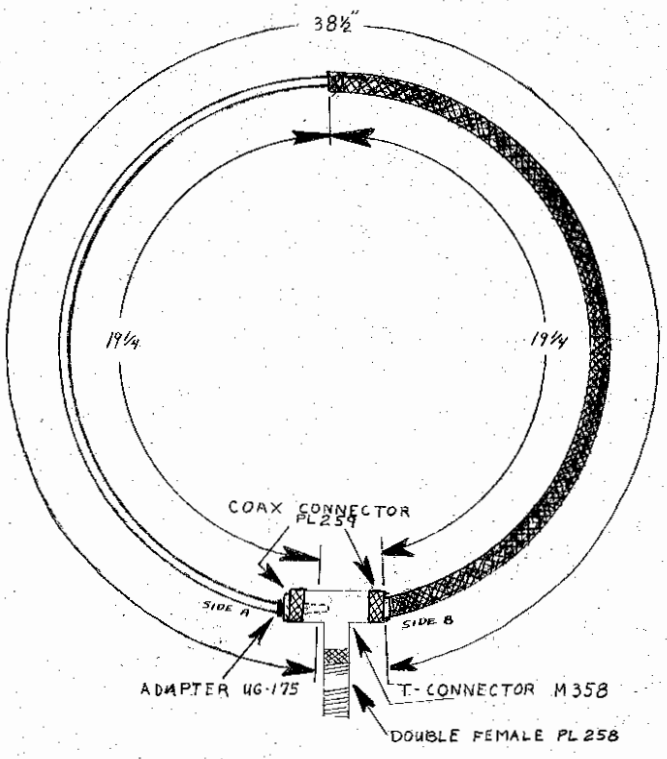
FCC's new novice exam has a circuit diagram error in the Ohm's Law problem which makes it impossible to answer as presented. Gettysburg has been advised to give all novice applicants credit for that question whether it is answered or not.....Novice training instructors please note.

Newsworthy Amateur Radio Events--stories likely to be of interest to newspapers or BC stations--can be phoned into ARRL 24 hours a day for redistribution to the news services. The special "hotline" number will have an answering machine to record story details. Be sure to include your name and phone number should follow-up be needed. The special number is (203) 667-0138, and it's for news only....no other ARRL matters.

73's Ed, W9EWW

Technical Topics

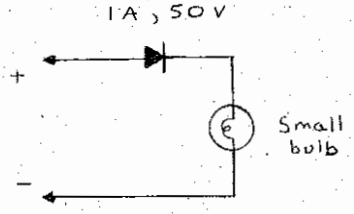
TWO METER DIRECTION FINDING ANTENNA



Because of a growing interest in detecting and locating erroneous signals on our repeater, I am repeating the following article which first appeared in our November issue. Start with a 38½ inch piece of RG-8/U coax cable and connect one end to a PL-259 connector (designated side "A"). Clip the center conductor on the other end and solder only the shield of the other end to a standard PL-259 coax connector (designated side "B"). Insert both ends into opposite ends of a standard "T" coax connector (M-358) with the remaining end of the "T" connector connected to a short piece of coax cable (a PL-259 connector on each end) and plug into your receiver. One further step is required! Completely cut and remove the section of copper shield (leaving the center conductor intact) at a distance of 19¼ inches from side "A". Apply tape around the removed shield section as well as around the PL-259 connectors for safety and better support. Norm McNew, WB9PCQ, who drew the diagram states that this direction finding antenna is accurate within three degrees. He was able to pinpoint a mobile operator on the "I" system, telling the mobile station everytime he passed under a bridge.

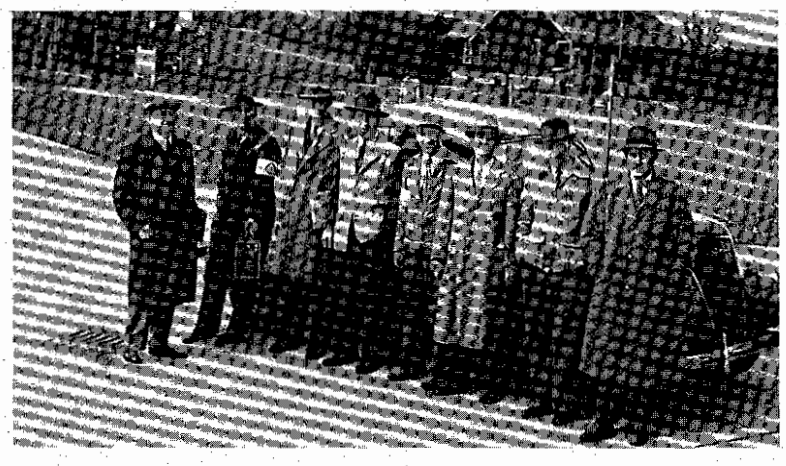
73's Larry McCalvy, WA9JMO

A HANDY TEST LIGHT FOR DC



To end the trial by error method most of us have employed one time or another trying to figure out which lead for sure was the hot one without blowing a fuse or worse is this simple to construct labor saver K9GNJ gave me.

at a glance...

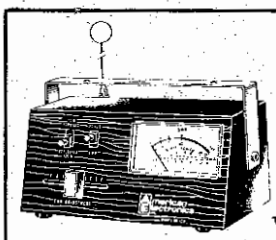


This gang is or was at the Army Air Show, Billy Mitchell Field, Milw., May 20, 1945. Pictured left to right are: Erv Kreis, W9HRM; Emil Felber, W9RH; H.H. Devendorf; John Scarvaci, W9GIL; Ralph Koenig, W9RUF; Herb Wareing, W9NY; Gene Hodson, W9EIH; Russ Holdredge

The outgoing president of the 25/85, Bob Willett, K9UML, enjoying himself at the election/installation of officers meeting held last February at Schlitz's Brown Bottle pub in Milwaukee, or is it just plain relief. (Photo: WB9FXR)

Commencing with this issue, The Hamateur has secured commercial advertising. It hopefully will serve a duel purpose - To help off-set the cost of this newsletter and to provide viable alternatives for your amateur needs. Our advertisers are as important to us as we are to them. Your patronage to our sponsors is needed and appreciated.

Larry McCalvy
WA9JMO
Editor



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Self-contained, self-sensing ALARM SYSTEM for cars, boats & trucks.....$28.50

Scanner TMR type crystals for 2 mtrs & PSB...$4.50

SPECIAL...This ad worth $2.00 towards the purchase of the above items $13.00 or over.

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207 Rhine Street — P. O. Box 216 — Watertown, Wisconsin 53094 — (414) 261-8184

STOP IN AND SEE SOME OF THESE ITEMS IN STOCK AT OUR NEW WATERTOWN FACILITY
MONTHLY SPECIALS - - - MAIL ORDER OKAY
ONE DOLLAR PER BAG (INCLUDES WIS. SALES TAX) ALL NEW FACTORY PRIME PARTS COD OR CHECK ACCEPTED

Bag ID	Description	Quantity/Bag	Bag ID	Description	Quantity/Bag
A	.01 100 V Disc.	10	K	3.8 - 18 pf Trimmer	4
B	.05 25 V Disc.	10	L	2 - 10 pf Trimmer	4
C	.001 50 V Disc.	12	M	1N4001	10
D	.01 25 V Disc.	10	N	1N4148	12
E	100 uf 16 V	5	O	Line Cords	3
F	10 uf 10 V Axial	10	P	9V AA Battery Housing	2
G	4.7 uf 10 V	10	Q	9V Battery Connectors	10
H	10 uf V Radial	10	R	Rubber Feet	40
I	47 uf 10 V	8	S	Slide Switches	3
J	100 uf 10 V	8	T	60 - 480 pf Trimmer	2

Resistors....1/2W 5% Any Value...@.05 [Quantity prices available]
115 AC Cooling Fans - Ideal for keeping Finals cool...$4.00 ea. [Quantity prices available]
New Hy-Gain 2 Meter Handhelds in Stock...$189.95 ea. New KLM "Super Radio" Multi 2700 in Stock
"COMPUTER FREAKS" INTELLIGENT SYSTEMS CORP. FULL COLOR GRAPHICS & TURN KEY BASIC IN ROM. Stop in and ask Joan for a demonstration.
WE STOCK: STANDARD COMMUNICATIONS, LARSEN ELECTRONICS, KLM, HY-GAIN, TPL, INTELLIGENT SYSTEMS CORP., MOHR LABS, CITO, CONTINENTAL SPECIALTIES, AND OTHERS. All with full warranty service through G.P.E. INC.

the HAMATEUR
EDITOR: Larry McCalvy WA9JMO
7453 W. Thurston Circle
Milwaukee, Wisconsin 53218

BULK RATE
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Meeting Notices

07/67.....May 3, Tuesday
31/91.....May 5, Thursday
Racine...May 9, Monday
Ozaukee...May 11, Wednesday
CQ3TUE...May 16, Tuesday
25/85.....May 16, Tuesday
6-MIC.....May 23, Monday
MRAC.....May 26, Thursday
22/82.....May 26, Thursday
93/33.....June 1, Wednesday
QCWA.....June 4, Saturday

Upcoming Events

UPCOMING EVENTS
May 26.....Auction MRAC
June 4.....QCWA Luncheon
July/Aug....Picnics
6-MIC & 93/33

WB9KMJ Sue Hannabl FREE
4921 N 56 St
Milw., Wis. 53218

Classified Ads

Until further notice, non-commercial ads will be accepted and published FREE for all newsletter readers. To insure the maximum success of For Sale Ads, all items must include the asking price.

Closing date for ads is the 8th of the publication month. Direct ad copy to: Don Habeck, W9AMM, 5973 Sugarbush Lane, Greendale, WI 53129

FOR SALE: Collins 75S-3B receiver with 2.1 khz filter from the estate of W9LJU; $550. Contact George, W9DVD 672-2828

FOR SALE: Trio TR-2200G, 12-channel, 1-watt 2-mtr xcvr, new nicads, 8 channels xtal'd charger and Drake AA-10 10-watt amplifier; $150. Contact Don, WB9YYA 453-8287 (weekends only after 6)

FOR SALE: Collins 75A4 recvr; $200. Contact Paul, W9DWA 962-8762

FOR SALE: Heathkit HW-101 xcvr, 80-10 mtrs, with HP-23B pwr supply and cw filter; $300. Heathkit SB-301 rec., with rtty crystal, cw filter, am filter; $200. Contact Steve, WA9WYF 647-1971

FOR SALE: Clegg FM-27A 2-mtr xcvr; $150. Contact Don, K9SHJ 421-4241

FOR SALE: Collins wattmeter (round emblem) Model 302C-3, mint condx; $100. Utica 650 6-mtr AM xcvr, mint; $40. Contact Bill, W9EQP 781-6744

FOR SALE: SX-42 gen. cov. rcvr; $90. NC-240 gen. cov. rcvr; $70. S-27 antique vhf rcvr (28-145 mc); $50. National HRO-7 rcvr w/spkr and coil set; $150. Eldico SSB xmtr, 100-watt pep; $100. Standard 826 2-mtr xcvr, 8 channels xtal'd; $160. FRR 502 rtty rcvr; $60. Contact Fred, W9NZF, 2929 N. Shepard Ave., Milw. 53211 964-0372

FOR SALE: Swan 350C xcvr and 117XC pwr supply, extras; $350. Contact Pete, WB9QFD 258-7788

FOR SALE: Swan 240 w/remote vfo and Heathkit pwr supply; $200. Contact Dan, WB9DCX 463-0384

FOR SALE: RTTY equipment (Model 15's) and parts, very reasonable! Contact Steve, WA9WYF, 647-1971 or Paul, WB9HCO, 544.0784.

FOR SALE: Heathkit HW-32 20-mtr SSB xcvr with HP-23 power supply and xtal calibrator; $45. Contact Don, W9AMM 421-1245

WANTED: Heavy-duty crank-up tower. Contact Paul, K9LWT Racine 554-9170

WANTED: Your old newspapers would be appreciated to help support a field day group. Contact Norm, WB9PCQ, for pick-up 764-5998

FOR SALE: 4 Element HyGain 6 meter beam; also Johnson Adventurer, 50 watts CW-AM, 80-10 Meters. Contact Bruce WB9SXX 228-9630